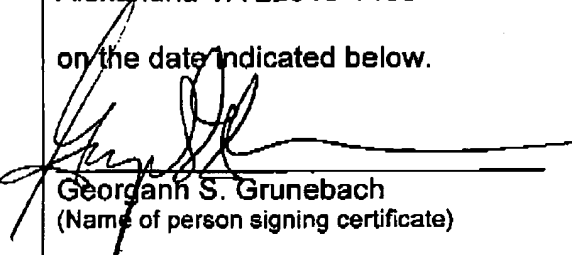




Patent  
PD-200181  
Customer No. 020991

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|   |  |
|---|--|
| In re Application of: Ernest C. Chen et al. | I hereby certify that this correspondence is being facsimile transmitted to (571) 273-2885 (Issue Fee Facsimile Number) addressed to:                |
| Serial No.: 09/844,401                      |  |
| Filing Date: April 27, 2001                 |  |
| For: LAYERED MODULATION FOR DIGITAL SIGNALS | Mail Stop Issue Fee<br>Commissioner for Patents<br>P. O. Box 1450<br>Alexandria VA 22313-1450  |
| Group Art Unit: 2611                        | on the date indicated below.   |
| Examiner: BAYARD, Emmanuel                  | <br>Georgann S. Grunebach<br>(Name of person signing certificate) |
|   | Date: January 10, 2007   |

**REQUEST FOR CONSIDERATION OF PREVIOUSLY FILED  
INFORMATION DISCLOSURE STATEMENT**

Mail Stop Issue Fee  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**ISSUE FEE DUE: JANUARY 17, 2007**

Dear Sir:

Applicants respectfully request consideration of the enclosed Information Disclosure Statements which were previously filed in the present application on October 18, 2006, October 23, 2006 and December 4, 2006, respectively.

The enclosed Information Disclosure Statement dated October 18, 2006 (EXHIBIT A) was mailed via first class mail to the Office on October 18, 2006 and received by the Office on October 23, 2006, as evidenced by the return date-stamped postcard. The statement was timely filed under 37 C.F.R. §1.97(d) with payment of the fee set forth in §1.17(p).

Serial No. 09/844,401.....Page 2

The enclosed Information Disclosure Statement dated October 23, 2006 (EXHIBIT B) was mailed via first class mail to the Office on October 23, 2006 and received by the Office on October 26, 2006, as evidenced by the return date-stamped postcard. The statement was timely filed under 37 C.F.R. §1.97(d) with payment of the fee set forth in §1.17(p).

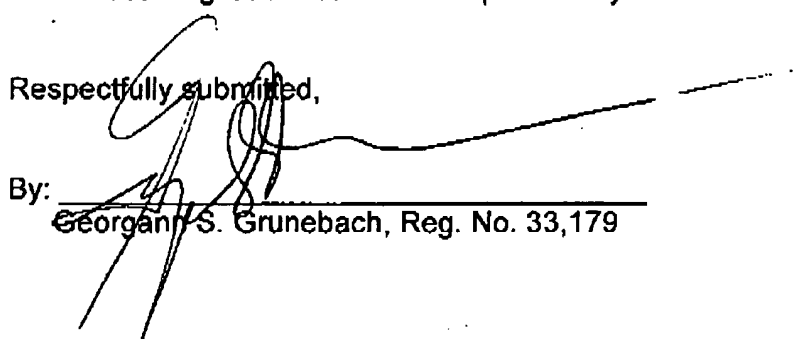
The enclosed Information Disclosure Statement dated December 4, 2006 (EXHIBIT C) was facsimile transmitted to the Office on December 4, 2006 and received by the Office on December 4, 2006, as evidenced by Auto-Reply Facsimile Transmission and the date-stamped RECEIVED CENTRAL FAX CENTER DEC 04 2006 of the Information Disclosure Statement and substitute form PTO 1449 enclosed herewith. The statement was timely filed under 37 C.F.R. §1.97(d) with payment of the fee set forth in §1.17(p).

Accordingly, Applicants respectfully submit that these Information Disclosure Statements should be fully considered, and the accompanying PTO 1449 forms, initialed by the Examiner.

Applicants believe that no fee is required in connection with this communication. If a fee is due, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California.

Favorable consideration is respectfully requested, and if the Examiner believes that there are any unresolved issues, Applicants request that the Examiner telephone the undersigned so that appropriate arrangements can be made for resolving such issues as expeditiously as possible.

Respectfully submitted,

By:   
Georgann S. Grunebach, Reg. No. 33,179

The DIRECTV Group, Inc.  
CA/LA1/A109  
P. O. Box 956  
El Segundo, CA 90245

Telephone No. (310) 964-4615

January 10, 2007



1/11

2611

Patent  
PD-200181  
Customer No. 020981

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Ernest C. Chen

Serial No.: 09/844,401  
Filed: April 27, 2001

For: LAYERED MODULATION FOR  
DIGITAL SIGNALS

Group Art Unit: 2611  
Examiner: Emmanuel Bayard

I hereby certify that this correspondence is  
being deposited with the United States Postal  
Service with sufficient postage as first class  
mail in an envelope addressed to:

Mail Stop AF, Commissioner for  
Patents, P. O. Box 1450, Alexandria, VA  
22313-1450, on the date below:

Georgann S. Grunebach

Typed or printed name of person signing certificate

Date: October 18, 2006

**SUPPLEMENTAL DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. § 1.97 (d)**  
**WITH FEE AS SET FORTH IN §1.17(p)**

Mail Stop AF  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The references cited on the enclosed form PTO/SB/08A may be relevant or material to the examination of the above-identified patent application and are, therefore, submitted in compliance with the duty of disclosure defined in 37 C.F.R. §1.56.

The references were cited in the European Search Report, date of communication being September 29, 2006, in the counterpart European patent application of related U.S. patent application serial number 10/532,631 filed April 25, 2005.

This statement should be considered because it is submitted after the period specified under 37 C.F.R. §1.97(c), but filed on or before payment of the issue fee as set forth in 37 C.F.R. § 1.97(d).

10/23/2006 RFEKADU1 00000036 500383 09844401

01 FC:1806 180.00 DA



Serial No. 09/844,401.....Page 2

**Certification Under 37 C.F.R. §1.97(e)**

Each item of information contained in the information disclosure statement was first cited in a communication from the European patent office in the counterpart foreign application of a related application not more than three months prior to the filing of the information disclosure statement (certification under 37 C.F.R. §1.97(e)(1)).

**PAYMENT OF FEE SET FORTH IN §1.17(p)**

Please charge Deposit Account No. **50-0383** of Hughes Electronics Corporation, El Segundo, California, in the amount of **\$180.00**. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to that account. **This form is being submitted in duplicate.**

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

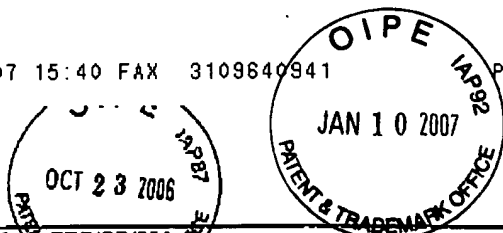
Respectfully submitted,

By:   
Georgann S. Grunebach, Reg. No. 33,179

The DIRECTV Group, Inc.  
CA/LA1/A109  
P. O. Box 956  
El Segundo, CA 90245

Telephone No. (310) 964-4615

October 18, 2006



Substitute for form PTO/SB/08A

Complete if Known

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

|                      |                  |
|----------------------|------------------|
| Application Number   | 09/844,401       |
| Filing Date          | 04/27/2001       |
| First Named Inventor | Ernest Chen      |
| Art Unit             | 2611             |
| Examiner Name        | BAYARD, Emmanuel |

Date: October 18, 2006

Sheet 1 of 1

Attorney Docket Number PD-200181

**U.S. PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. | Document Number<br>Number-Kind Code | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures<br>Appear |
|-----------------------|-------------|-------------------------------------|-----------------------------------|--|--|
|                       |             | US-2002/006795                      | 01-2002                           | Norin et al.                                       |  |
|                       |             | US-6,333,924                        | 12-2001                           | Porcelli et al.                                    |  |
|                       |             | US-2001/012322                      | 08-2001                           | Nagaoka et al.                                     |  |
|                       |             |                                     |                                   |  |  |
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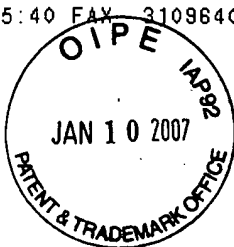
**FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. | Foreign Patent Document<br>Country Code-Number-Kind<br>Code | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns,<br>Lines, Where<br>Relevant Passages<br>or Relevant Figures<br>Appear | T |
|-----------------------|-------------|---|-----------------------------------|--|---|---|
|                       |             | WO 2005/086444  | 09-2005                           | Thomson Licensing S.A.                             |   |   |
|                       |             | WO 2005/074171  | 08-2005                           | Qualcomm Incorporated                              |   |   |
|                       |             |   |                                   |  |   |   |
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|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**A**

AF  
SFNPatent  
PD-200181  
Customer No. 020991

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Ernest C. Chen

Serial No.: 09/844,401  
Filed: April 27, 2001For: LAYERED MODULATION FOR  
DIGITAL SIGNALSGroup Art Unit: 2611  
Examiner: Emmanuel BayardI hereby certify that this correspondence is  
being deposited with the United States Postal  
Service with sufficient postage as first class  
mail in an envelope addressed to:Mail Stop AF, Commissioner for  
Patents, P. O. Box 1450, Alexandria, VA  
22313-1450, on the date below:

Georgann S. Grunebach

Typed or printed name of person signing certificate

Date: October 23, 2006

**SUPPLEMENTAL DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. § 1.97 (d)**  
**WITH FEE AS SET FORTH IN §1.17(p)**Mail Stop AF  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The reference cited on the enclosed form PTO/SB/08A may be relevant or material to the examination of the above-identified patent application and is, therefore, submitted in compliance with the duty of disclosure defined in 37 C.F.R. §1.56.

The reference was cited in an Examiner's Answer dated August 9, 2006, in related patent application serial number 10/165,710 filed June 7, 2002.

This statement should be considered because it is submitted after the period specified under 37 C.F.R. §1.97(c), but filed on or before payment of the issue fee as set forth in 37 C.F.R. § 1.97(d).

10/25/2006 CHUYEN 00000004 500343 09044401  
01 FC:1006 100.00 DA



Serial No. 09/844,401.....

Page 2

**Certification Under 37 C.F.R. §1.97(e)**

Each item of information contained in the information disclosure statement was first cited in a communication from the European patent office in the counterpart foreign application of a related application not more than three months prior to the filing of the information disclosure statement (certification under 37 C.F.R. §1.97(e)(1)).

**PAYMENT OF FEE SET FORTH IN §1.17(d)**

Please charge Deposit Account No. **50-0383** of Hughes Electronics Corporation, El Segundo, California, in the amount of **\$180.00**. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to that account. **This form is being submitted in duplicate.**

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

Respectfully submitted,

By: 

Georgann S. Grunebach, Reg. No. 33,179

The DIRECTV Group, Inc.  
CA/LA1/A109  
P. O. Box 956  
El Segundo, CA 90245

Telephone No. (310) 964-4615

October 23, 2006

JAN 10 2007

Substitute for form PTO/SB/456  
TRADEMARK**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT****Complete if Known**

|                      |                  |
|----------------------|------------------|
| Application Number   | 09/844,401       |
| Filing Date          | April 27, 2001   |
| First Named Inventor | Ernest C. Chen   |
| Art Unit             | 2611             |
| Examiner Name        | BAYARD, Emmanuel |

Date: October 23, 2006

Shepherd

Attorney Docket Number PD-200181

**U.S. PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. | Document Number<br>Number-Kind Code | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures<br>Appear |
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**FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. | Foreign Patent Document<br>Country Code-Number-Kind<br>Code | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns,<br>Lines, Where<br>Relevant Passages<br>or Relevant Figures<br>Appear | T |
|-----------------------|-------------|---|-----------------------------------|--|---|---|
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|                       |             |   |                                   |  |   |   |
|                       |             |   |                                   |  |   |   |

**NON PATENT LITERATURE DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item<br>(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s),<br>publisher, city and/or country where published. | T |
|-----------------------|-------------|---|---|
|                       |             | THE AUTHORITATIVE DICTIONARY OF IEEE STANDARDS TERMS; Seventh<br>Edition, pp. 1047 ~ definition of "signal"   |   |

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



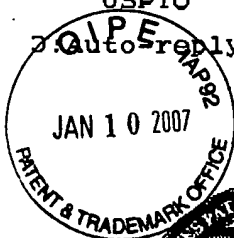
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PAGE 1/001

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| PLEASE CONFIRM RECEIPT OF THIS FACSIMILE   |  |             |   |         |  |
| Attention: Mail Stop AF<br>Group Art Unit: 2811<br>Examiner: BAYARD, Emmanuel  |  |             | Fax: (571) 273-8300                             |         |  |
| UNITED STATES PATENT AND TRADEMARK OFFICE  |  |             | Phone: (571) 272-3010                           |         |  |
| Pages: Cover + 2 + 2 + 1 = 6   |  |             | Date: December 4, 2006                          |         |  |
| From: Georgann S. Grunebach<br>Assistant General Counsel   |  |             | Fax: (310) 664-0941<br>Phone: (310) 664-4815    |         |  |
| <p>The information contained in this facsimile is confidential and may also contain privileged attorney-client information or other confidential information. The information is intended only for the use of the individual or entity to which it is addressed. If you are not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any use, dissemination, distribution or copying of this communication is strictly prohibited. If you have received this facsimile in error, please immediately notify me by telephone, and return the original message to us at the address below via the U.S. Postal Service. Thank you.</p> |  |             |   |         |  |
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| <p>I hereby certify that the correspondence identified below is being transmitted to (571) 272-8300 (Centralized Facsimile Number), addressed to Mail Stop AF, Central Post Office, P.O. Box 1450, Alexandria, VA 22313-1450, on December 4, 2006.</p>   |  |             |   |         |  |
| <p>Georgann S. Grunebach, Reg. No. 33,179<br/>(Printed Name of Person Signing Certificate)</p>   |  |             | <p>December 4, 2006<br/>(Date of Signature)</p> |         |  |
| Telephone No. (310) 664-4815   |  |             |   |         |  |
| Attention: Commissioner for Patents  |  |             | Attorney Docket No. PD-200151                   |         |  |
| Please find attached Re:   |  |             |   |         |  |
| Serial No.: 09/844,401   |  |             | Filing Date: April 27, 2001                     |         |  |
| <p>&gt; INFORMATION DISCLOSURE STATEMENT (2 pages in duplicate)</p> <p>&gt; SUBSTITUTE FORM PTO/SB/08B (1 page)</p> <p>&gt; NON-PATENT LITERATURE (2 pages)</p>  |  |             |   |         |  |
| PLEASE CONFIRM RECEIPT OF THIS FACSIMILE   |  |             |   |         |  |
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| UNITED STATES PATENT AND TRADEMARK OFFICE |  | Phone: | (571) 272-3016   |
| Pages:                                    | Cover + 2 + 2 + 1 = 6  | Date:  | December 4, 2006 |
| From:                                     | Georgann S. Grunebach<br>Assistant General Counsel                 | Fax:   | (310) 964-0941   |
|   |  | Phone: | (310) 964-4615   |

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## CERTIFICATION OF FACSIMILE TRANSMISSION UNDER 37 CFR 1.8

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Telephone No. (310) 964-4615

Georgann S. Grunebach, Reg. No. 33,179  
(Printed Name of Person Signing Certificate)

December 4, 2006  
(Date of Signature)

Attention: Commissioner for Patents

Attorney Docket No. PD-200181

Please find attached Re:

Serial No.: 09/844,401

Filing Date: April 27, 2001

- INFORMATION DISCLOSURE STATEMENT (2 pages in duplicate)
- SUBSTITUTE FORM PTO/SB/08B (1 page)
- NON-PATENT LITERATURE (2 pages)

**PLEASE CONFIRM RECEIPT OF THIS FACSIMILE**

If you do not receive all pages, or pages are not clear, please call Karen Lum at (310) 964-0735.

PAGE 1/6 \* RCVD AT 12/4/2006 7:55:11 PM [Eastern Standard Time] \* SVR:USPTO-EFAXF-5/10 \* DNIS:2738300 \* CSID:3109640941 \* DURATION (mm-ss):00-58

PAGE 11/14 \* RCVD AT 1/10/2007 5:36:57 PM [Eastern Standard Time] \* SVR:USPTO-EFAXF-1/6 \* DNIS:2732885 \* CSID:3109640941 \* DURATION (mm-ss):03-58

TC



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002/006

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Patent  
PD-200181  
Customer No. 020981

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Ernest C. Chen

Serial No.: 09/844,401  
Filed: April 27, 2001

For: LAYERED MODULATION FOR  
DIGITAL SIGNALS

Group Art Unit: 2611  
Examiner: Emmanuel Bayard

I hereby certify that this correspondence is  
being facsimile transmitted to (571) 273-8300  
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Mail Stop AF, Commissioner for  
Patents, P. O. Box 1450, Alexandria, VA  
22313-1450, on the date below:

  
Georgann S. Grunebach

Typed or printed name of person signing certificate

Date: December 4, 2006

**SUPPLEMENTAL DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. § 1.97 (d)**  
**WITH FEE AS SET FORTH IN §1.17(p)**

Mail Stop AF  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The reference cited on the enclosed form PTO/SB/08A may be relevant or material to the examination of the above-identified patent application and is, therefore, submitted in compliance with the duty of disclosure defined in 37 C.F.R. §1.56.

The reference was cited in a Notice of Allowance dated November 21, 2006, in related U.S. patent application serial number 10/532,509 filed April 25, 2005.

This statement should be considered because it is submitted after the period specified under 37 C.F.R. §1.97(c), but filed on or before payment of the issue fee as set forth in 37 C.F.R. §1.97(d).

ITC

12/04/2006 17:57 FAX 3109640941

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003/006

DEC 04 2006

Serial No. 09/644,401.....Page 2

Certification Under 37 C.F.R. §1.97(e)

No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the information disclosure statement (certification under 37 C.F.R. § 1.97 (e)(2)).

PAYMENT OF FEE SET FORTH IN §1.17(d)

Please charge Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California, in the amount of \$180.00. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to that account. This form is being submitted in duplicate.

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

Respectfully submitted,

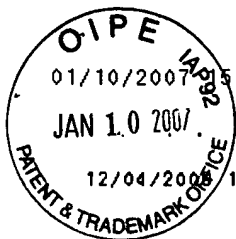
By: 

Georgann S. Grunebach, Reg. No. 33,179

The DIRECTV Group, Inc.  
CA/LA1/A109  
P. O. Box 958  
El Segundo, CA 90245

Telephone No. (310) 964-4815

December 4, 2006



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JAN 10 2007

12/04/2006 17:57 FAX 3109640941

P &amp; L LEGAL

008/008

|   |                          |                  |
|---|--------------------------|------------------|
| <b>Substitute for form PTO/SB/08A</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> | <b>Complete if Known</b> |                  |
|   | Application Number       | 09/844,401       |
|   | Filing Date              | April 27, 2001   |
|   | First Named Inventor     | Ernest C. Chen   |
|   | Art Unit                 | 2611             |
| Date: December 4, 2006  | Examiner Name            | BAYARD, Emmanuel |
| Sheet 1 of 1  | Attorney Docket Number   | PD-200181        |

| U.S. PATENT DOCUMENTS |          |                                     |                                |  |  |
|-----------------------|----------|-------------------------------------|--------------------------------|--|--|
| Examiner Initials*    | Cite No. | Document Number<br>Number-Kind Code | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures<br>Appear |
|                       |          | US-6,369,648                        | 04-2002                        | Kirkman, George F.                                 |  |
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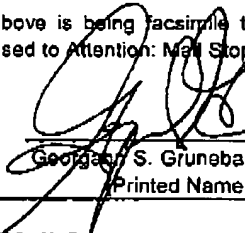
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- REQUEST FOR CONSIDERATION OF PREVIOUSLY FILED INFORMATION DISCLOSURE STATEMENTS (2 pages)
- EXHIBIT A – INFORMATION DISCLOSURE STATEMENT DATED OCTOBER 18, 2006 (3 pages)
- EXHIBIT B – INFORMATION DISCLOSURE STATEMENT DATED OCTOBER 23, 2006 (3 pages)
- EXHIBIT C – INFORMATION DISCLOSURE STATEMENT DATED DECEMBER 4, 2006 (5 pages)

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